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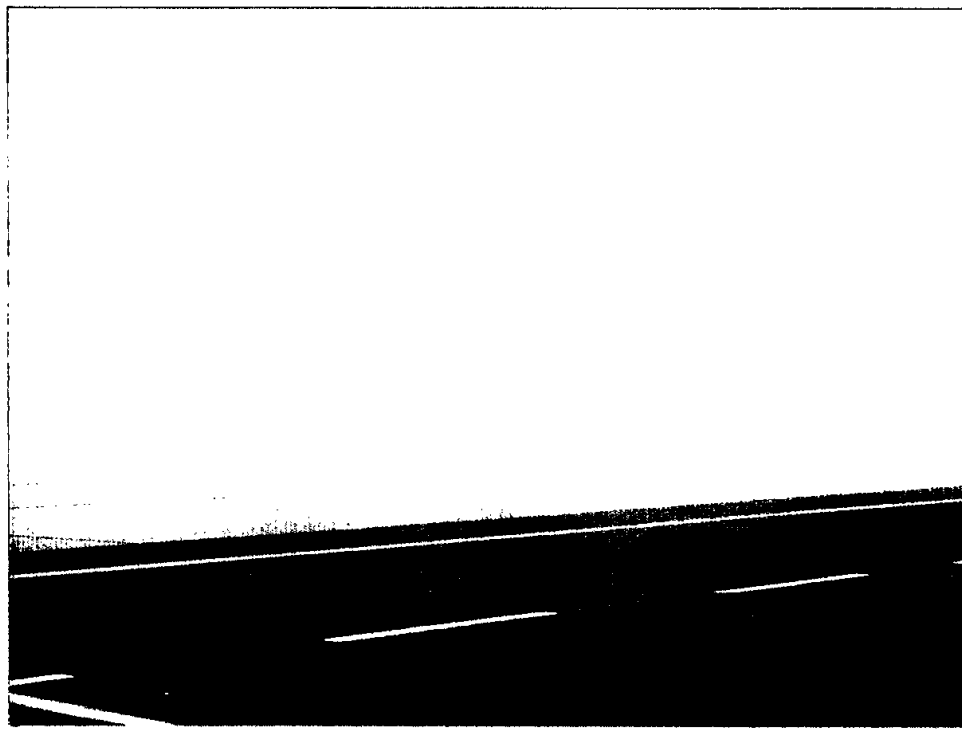


**SAN FRANCISCO
MAINTENANCE CENTER**

**Major Facility Review Permit
Semiannual Monitoring Status Report**

March 1, 2016 to August 31, 2016

BAAQMD Facility # A0051



Prepared by:

**United Airlines, Inc.
Environmental Affairs
San Francisco, California**

September 22, 2016



UNITED AIRLINES, INC. - SFMC SEMIANNUAL MONITORING REPORT CERTIFICATION

Facility: United Airlines, Inc. - San Francisco Maintenance Center

San Francisco International Airport
San Francisco, CA 94128

Facility ID: A0051

Reporting Period
March 1, 2016 to August 31, 2016

This monitoring report is required pursuant to the United Airlines, Inc. Major Facility Review Permit Standard Conditions, Section F – Monitoring Report.

Monitoring Statement


This facility was in compliance with all emission limitations and monitoring provisions of the Title V Operating Permit as identified by the compliance methods specified in the permit (i.e., methods that determine whether compliance was continuous or intermittent), except where stated below.

When non-compliance items are identified and reported, or instances where additional data were required to determine compliance, the following information will be included:

1. Emission unit identification number (Source ID);
2. Specific permit condition number;
3. Description of any deviations from the conditions of this permit, or instance where additional information was required to determine compliance, including those attributable to malfunctions/breakdowns; and
4. Basis for the determination of non-compliance (including additional information **not** specified in the permit) and, if applicable, subsequent compliance.

Certification by Responsible Official

Based upon the information and belief formed after a reasonable inquiry, I as a responsible official of the above-mentioned facility, certify the information contained in this report is true, accurate, and complete for the semiannual reporting period indicated above.


(Signature of Responsible Official)

23 SEPT 2016
(Date)

Name: Mark Eldred

Title: Managing Director, SFO Base Maintenance & MRO Services



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Introduction

On March 17, 2000, the Bay Area Air Quality Management District (BAAQMD) issued an initial Major Facility Review Permit (Title V Operating Permit) to the United Airlines, Inc. (United) San Francisco Maintenance Center (SFMC). The major activity at the SFMC is commercial aircraft maintenance for United's aircraft fleet. United submitted a Title V Operating Permit renewal application on August 31, 2004. The BAAQMD issued the renewed Title V Operating Permit effective July 22, 2011. On April 2, 2015, the BAAQMD approved an administrative amendment to update the Title V Operating permit responsible official and issued an updated Title V Operating Permit dated April 2, 2015. United submitted a Title V Operating Permit renewal application to the BAAQMD on January 21, 2016.

Report Discussion

United is submitting this semiannual monitoring report pursuant to Standard Condition F of the SFMC's Title V Operating Permit issued April 2, 2015 and pursuant to BAAQMD Regulation 2, Rule 6, Section 502.

The format of this report is based on the tables found in Section VII – "Applicable Limits and Compliance Monitoring Requirements" of United's current Title V Operating Permit. Each source or group of sources is identified along with its applicable emission limit(s), specific permit condition(s) and monitoring requirement(s). A column was added to these tables to indicate compliance or non-compliance with the applicable monitoring requirements associated with the individual sources. In the case of identified non-compliance, or if a specific line item is not applicable (i.e., the source no longer exists), a brief explanation is provided after each table or in the first section of this report.

Copies of all monitoring records are available for inspection at United's Environmental Affairs (EA) office located at the SFMC.

Source Additions, Modifications or Deletions

This section provides a summary of source activities that have occurred at the SFMC since United's last submission of its semi-annual report to the BAAQMD on March 26, 2016. This summary is limited to source activities relevant to the Title V Operating Permit, including matters such as new operating permits, authorities to construct and/or the removal of permitted sources.

United received one Authority to Construct, a Permit to Operate, as well as certain revisions to conditions in the Permit to Operate as a result of the following applications United submitted in December and August 2015. Table 1 below summarizes this activity.

Table 1. Permit Application/Issuance Summary

Source(s)	Description	Date	Description
S-95 and S-96	PTO Application #27393	August 15, 2016	United received revised PTO that removed the reference to regulation 9-7-112 in condition #25429.
S-90	PTO Application #27393	August 15, 2016	United received revised PTO that modified condition #14135 that changed the application submittal requirement to a 15-day notification for the testing of new engine models at S-90.



Source(s)	Description	Date	Description
S-400	PTO Application #27393	August 15, 2016	United received PTO that consolidated facility-wide non-booth aerospace coating operations, including sources S-97 through S-104.
S-401	ATC Application #27643	August 8, 2016	United received the ATC for new FQPU repair station.

The PTO for S-400, issued on August 15, 2016, consolidates facility-wide non-booth aerospace coating operations into a single source. It also resulted in the archiving of sources S-97 through S-104 on August 15, 2016. This permitting update does not reflect a change in operations at the facility.

For ATC application #27643, United has received an ATC to install and operate source S-401, a fuel quantity processor unit (FQPU) repair station. FQPUs are electronic modules containing circuit boards. The FQPUs will be disassembled, repaired and re-assembled at the repair station. The repair process will consist of cleaning, solder reflow and coating stages. The FQPU repair station was not operated during this reporting period.

Compliance Issues

This section provides a summary of enforcement-related activities taken by the BAAQMD, including Notices of Violations, Episode Reporting, Variances/Enforcement Actions, Abatement Orders, Penalty Assessments and other similar actions that have occurred within the reporting period.

Notices of Violation

United did not receive any notices of violation (NOVs) during this reporting period.

Reportable Compliance Activity Notifications

No reportable compliance activity (RCA) notifications were submitted and no reportable episodes occurred during this reporting period.

Title V Deviation Reporting

Since United did not experience any compliance deviations with our Title V operating permit during this reporting period, no deviation reports were submitted.

Other Non-Compliance Issues Not Previously Reported

No other deviations or occurrences of non-compliance with applicable air quality regulations not previously reported occurred during this reporting period.

Variance Applications and Enforcement Agreements

United did not file any variance applications or enter into any enforcement agreements during this reporting period.



Penalty Assessments for Air Quality-Related Matters

United and the BAAQMD executed a settlement agreement dated June 17, 2016, for purposes of resolving Notice of Violation # 53970 dated February 22, 2016. The NOV was issued to United for an alleged violation that occurred on November 30, 2015.

Compliance Monitoring Tables

The following abbreviations are used in the tables provided in this report:

FE – Federally enforceable; Y = Yes, N = No

Monitoring Codes:

C - Continuous	D - Daily	A - Annual
E - Per Event	M - Monthly	
N - Not Required	P - Periodic	
Q - Quarterly	W - Weekly	
NA – Not Applicable		

The '**Monitoring Type or Compl. Method or Compliance Determination**' column is used to convey the method by which compliance or non-compliance is determined.

A **Yes** answer in the "Continuous Compliance?" column indicates that the source was in compliance at all times during the reporting period. A **No** answer indicates that the source was in non-compliance at some time during the reporting period, but is not indicative of continuous non-compliance. Furthermore, an indication of non-compliance with any requirement does not necessarily mean that the source is non-compliant at the time this report was prepared or submitted.



Table VII – A

Applicable Limits and Compliance Monitoring Requirements

S1, S9, S10, S57, S64, S78, S80, S105, S112, S128, S140: SOLVENT CLEANING OPERATIONS

S56: SPRAY CLEANING – PRECLEAN ROOM

S258: OIL COOLER FLUSH CART

S284: OIL COOLER FLUSH CART

S288, S289, S290: RECYCLING PARTS WASHERS

S291, S292, S293: PARTS WASHERS

S328, S329, S330, S331: PARTS CLEANERS

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
HAP	None	Y	None	40 CFR 63.752(b)(1)	P/E	Recordkeeping	Yes
VOC for S1, S9, S10, S57, S64, S78, S80, S105, S112, S128, S140	Condition #9044, Part 1	Y	32,000 gallons/yr mineral spirits, net usage	Condition #9044, Part 2	P/Q	Recordkeeping	Yes
Solvent usage for S258	Condition #8016, Part 1	Y	100 gal/yr	Condition #8016, Part 2	P/M	Recordkeeping	Yes
Solvent usage for S284	Condition #18250, Part 1	Y	50 gal/yr	Condition #18250, Part 2	P/M	Recordkeeping	Yes
Solvent usage for S288, S289, S290	Condition #18484, Part 1	Y	30 gal/yr	Condition #18484, Part 2	P/M	Recordkeeping	Yes
Solvent usage for S291, S292, S293	Condition #18260, Part 1	Y	120 gal/yr	Condition #18260, Part 2	P/M	Recordkeeping	Yes
Solvent usage for S328, S329	Condition #23500, Part 1	Y	100 gal/yr	Condition #23500, Part 2	P/M	Recordkeeping	Yes
Solvent usage for S330	Condition #23707, Part 1	Y	50 gal/yr	Condition #23707, Part 2	P/M	Recordkeeping	Yes
Solvent usage for S331	Condition #23737, Part 1	Y	100 gal/yr	Condition #23737, Part 2	P/M	Recordkeeping	Yes



Table VII – B
Applicable Limits and Compliance Monitoring Requirements

S16, S17, S18, S19, S20, S21, S22, S23: CHROME PLATING OPERATIONS

Type of limit	Emission Limit Citation	FE* Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Hexavalent Chrome	Reg 11-8; 93102.4(b)(1) ¹ Condition #23542, Part 1a	N	≤0.0015 mg/amp-hr	Reg 11-8; 93102.9(b) and 93102.12(c)(2) Condition #23542, Parts 6b and 6c	C	Pressure Differential	Yes
Amp-hours	Condition #23542, Part 1b	N	60 million amp-hrs/yr (combined usage)	Reg 11-8; 93102.9(a) & 93102.12(c)(1) Condition #23542, Parts 6a and 9(b)(i)	C	Recording Amp-hr Meters	Yes
Dry Scrubber Pressure Drop	Reg 11-8; 93102.9(b)(2) Condition #23542, Parts 6b and 6c	N	Acceptable differential pressure range across each abatement device: (in. H ₂ O) A-216, A-217, A-218, A-219, A-220, A-221, A-222, A-223: ±2 inches of water column of the value established by most recent source test A-416, A-418, A-420, A-422: Minus ½ times to plus 2 times the inches of water column of the value established during the most recent source test	Reg 11-8; Section 93102.12(c)(2) Condition #23542, Parts 6b and 6c	P/W	Pressure Differential	Yes

¹ California Code of Regulations, Title 17, section 93102, hereinafter referred to as 93102. BAAQMD Regulation 11-8 incorporates 93102 by reference.



Table VII – C

Applicable Limits and Compliance Monitoring Requirements

S61, S123, S126, S146: AEROSPACE PAINT SPRAY BOOTHS

S97, S98, S99, S100, S101, S102, S103, S104: AIRCRAFT PAINTING DOCKS*

S275: PAINT SPRAY BOOTH

S280: PAINT SPRAY BOOTH**

S327: AIRCRAFT GENERATOR REPAIR STATION

S400: FACILITY-WIDE NON-BOOTH AEROSPACE COATING OPERATIONS*

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
VOC	Regulation 8-29-302.1	Y	Primer: 350 g/l (2.9 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.2	Y	Adhesive Bonding Primer: 850 g/l (7.1 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.3	Y	Interior Topcoat: 340 g/l (2.8 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.4	Y	Electric or Radiation Effect Coating: 800 g/l (6.7 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.5	Y	Extreme Performance Interior Topcoat: 420 g/l (3.5 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.6	Y	Fire Insulation Coating: 600 g/l (5.0 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.7	Y	Fuel Tank Coating: 720 g/l (6.0 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.8	Y	High-Temperature Coating: 720 g/l (6.0 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.9	Y	Sealant: 600 g/l (5.0 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.10	Y	Self-priming Topcoat: 420 g/l (3.5 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.11	Y	Topcoat: 420 g/l (3.5 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.12	Y	Pretreatment Wash Primer: 420 g/l (3.5 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	Regulation 8-29-302.13	Y	Sealant Bonding Primer: 720 g/l (6.0 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes



Table VII – C

Applicable Limits and Compliance Monitoring Requirements

S61, S123, S126, S146: AEROSPACE PAINT SPRAY BOOTHS

S97, S98, S99, S100, S101, S102, S103, S104: AIRCRAFT PAINTING DOCKS*

S275: PAINT SPRAY BOOTH

S280: PAINT SPRAY BOOTH**

S327: AIRCRAFT GENERATOR REPAIR STATION

S400: FACILITY-WIDE NON-BOOTH AEROSPACE COATING OPERATIONS*

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
VOC	Regulation 8-29-302.14	Y	Temporary Protective Coating: 250 g/l (2.1 lb/gal)	Regulation 8-29-501	P/W	Recordkeeping	Yes
	40 CFR 63.745(c)(2)	Y	Primer: 350 g/l (2.9 lb/gal)	40 CFR 63.752(c)(2)	P/M	Recordkeeping	Yes
	40 CFR 63.745(c)(4)	Y	Topcoats: 420 g/l (3.5 lb/gal)	40 CFR 63.752(c)(2)	P/M	Recordkeeping	Yes
Organic HAP	40 CFR 63.745(c)(1)	Y	Primer: 350 g/l (2.9 lb/gal)	40 CFR 63.752(c)(2)	P/M	Recordkeeping	Yes
	40 CFR 63.745(c)(3)	Y	Topcoats: 420 g/l (3.5 lb/gal)	40 CFR 63.752(c)(2)	P/M	Recordkeeping	Yes
Inorganic HAP for S123	40 CFR 63.745(g)(2) (iv)	Y	95% reduction of HAPs	Condition #21946, Part 3	Once per shift	Pressure Differential and Recordkeeping	Yes
POC for S275**	Condition #23499, Part 1	Y	14,780 lb/year	Condition #23499, Part 3	P/M	Recordkeeping	NA
POC for S280**	Condition #24442, Part 1	Y	20 gal/yr primer 20 gal/yr topcoat 40 gal/yr solvent	Condition #24442, Part 2	P/M	Recordkeeping	NA
POC for S327**	Condition #22985, Part 1	Y	300 gal/yr alcohol 100 gal/yr WD-40 100 gal/yr primer 75 gal/yr topcoat	Condition #22985, Part 2	P/M	Recordkeeping	NA

*On August 15, 2016, the BAAQMD issued a PTO for source S-400 for facility-wide non-booth aerospace coating operations. As a result, sources S-97 through S-104 were archived on August 15, 2016 and replaced by consolidated source S-400. S-400 is not yet listed in United's Major Facility Review Permit. No change in the facility's operation has occurred.

**S280: As was previously reported to the BAAQMD, this source ceased operation in May 2012. The permit to operate for S280 was cancelled in May 2013. Source S-327 has permanently shutdown and the PTO was cancelled on October 2, 2015. S-275 was permanently shut down and the PTO was cancelled prior to 2013.



Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S87, S88, S89, S90: APU TEST CELLS – ENGINE TEST CELLS

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Visible Emissions		N		Condition #16558, Parts 2 and 3	P/E	Visible Emissions Check	Yes
Sulfur content	Regulation 9-1-304	Y	Fuel Sulfur Limit 0.5%	Condition #16558, Parts 1 and 3 Condition #14315, Parts 4 and 6	P/M	Vendor Certification or BAAQMD approved laboratory analysis	Yes
NO _x for S90	Condition #14315, Part 3	Y	NO _x Emissions: ≤90.9 tons during any consecutive 12 month period.	Condition #14315, parts 3 and 6	P/M	Recordkeeping	Yes
Usage for S90	Condition #14315, Part 1	Y	Fuel Usage: ≤764,000 gallons during any consecutive 12 month period.	Condition #14315, part 6	P/M	Recordkeeping	Yes
	Condition #14315, Part 2	Y	Fuel Usage: PW4090 engine ≤344,500 gallons during any consecutive 12 month period.	Condition #14315, part 6	P/M	Recordkeeping	Yes

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S92: AIRCRAFT WASHING AREA

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
VOC	Regulation 8-4-302.1	N	5 tons/yr (each source)	Regulation 8-4-501	P/A	Recordkeeping	Yes
VOC	SIP Regulation 8-4-302.1	Y	5 tons/yr (each source)	Regulation 8-4-501	P/A	Recordkeeping	Yes



Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S95, S96: BOILERS*

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Sulfur Limit	Regulation 9-1-304	Y	Fuel Sulfur Limit 0.5% (liquid fuels)	Regulation 9-1-501	P/E	Vendor Certification or BAAQMD approved laboratory analysis	Yes

* As the BAAQMD is aware, S95 and S96 were previously operated under the low fuel usage limited exemption of Regulation 9-7-112 as backups to United's Cogen plant, consisting of S-195 (Combustion Turbine) and S-196 (Duct Burner). In March 2012, under Application No. 24102, the District allowed United to convert the boilers from backup to full time operation after United decommissioned its Cogen plant. As a result of losing the low fuel usage limited exemption of Regulation 9-7-112, S95 and S96 became subject to the emissions standards in Regulation 9-7-307.6 within 24 months from when S95 and S96 lost eligibility for the exemption.

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S110, S191*: VARNISH DIP TANKS, WITH ASSOCIATED ELECTRIC CURING OVENS
S240: MISCELLANEOUS RESIN LAMINATING
S262: ADHESIVE APPLICATION AND STRIPPING OPERATION

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
VOC	Regulation 8-4-302.1	N	5 tons/yr (each source)	Regulation 8-4-501	P/A	Recordkeeping	Yes
	Regulation 8-4-302.3	Y	≤3.5 lb/gal coating VOC limit (alternative to 5 ton limit)	Regulation 8-4-501	P/A	Recordkeeping	Yes
POC for S262	Condition #9078, Parts 1 and 2	Y	2,020 gallons/yr solvent; 638 gallons/yr adhesive	Condition #9078, Part 3	P/M	Recordkeeping	Yes

* As was previously reported, the S191 Varnish Dip Tank has been removed from service and the permit to operate has been cancelled.



Table VII – H
Applicable Limits and Compliance Monitoring Requirements
S155, S156, S157: FACILITIES PAINT BOOTHS

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
VOC	Regulation 8-14-302.2	Y	Air-Dried Coatings: 340 g/l (2.8 lb/gal)	Regulation 8-14-501	P/D	Recordkeeping	Yes
VOC	Regulations 8-14-310.1 to 310.5	Y	Specialty Coatings, air-dried coating: 420 g/l (3.5 lb/gal)	Regulation 8-14-501	P/D	Recordkeeping	Yes
VOC	Regulation 8-19-302.2	Y	Air-Dried Coatings: 340 g/l (2.8 lb/gal)	Regulation 8-19-501	P/W	Recordkeeping	Yes
	Regulations 8-19-312.1 to 312.13	Y	Specialty Coatings, Air-dried coating limits: 420 g/l or 3.5 lb/gal	Regulation 8-19-501	P/W	Recordkeeping	Yes
VOC	Regulation 8-32-302	N	General Wood Prod.: 120 -350 g/l (1.0 - 2.9 lb/gal)	Regulation 8-32-501	P/D	Recordkeeping	Yes
	Regulation 8-32-303	N	Wood Furniture: 120 – 550 g/l (1.0 – 4.6 lb/gal)	Regulation 8-32-501	P/D	Recordkeeping	Yes
	Regulation 8-32-304	N	Custom Furniture: 120 – 550 g/l (1.0 – 4.6 lb/gal)	Regulation 8-32-501	P/D	Recordkeeping	Yes
VOC	SIP Regulation 8-32-303.1	Y	General, High Solids, Specific Coating Limits: 240 – 275 g/l (2.0 – 2.3 lb/gal)	SIP Regulation 8-32-501	P/D	Recordkeeping	Yes
	SIP Regulation 8-32-303.2	Y	General, Low Solids coating Limit: 120 g/l (1.0 lb/gal)	SIP Regulation 8-32-501	P/D	Recordkeeping	Yes
	SIP Regulation 8-32-304.1	Y	Furniture, High Solids, Specific Coating Limits: 275 – 420 g/l (2.3 – 3.5 lb/gal)	SIP Regulation 8-32-501	P/D	Recordkeeping	Yes
	SIP Regulation 8-32-304.2	Y	Furniture, Low Solids: 120 g/l (1.0 lb/gal)	SIP Regulation 8-32-501	P/D	Recordkeeping	Yes
VOC	Regulation 8-45-301.3	Y	Adhesion Promoter: 540 g/l or 4.5 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Clear Coating: 250 g/l or 2.1 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes



Table VII – H
Applicable Limits and Compliance Monitoring Requirements
S155, S156, S157: FACILITIES PAINT BOOTHS

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
	Regulation 8-45-301.3	Y	Color Coating: 420 g/l or 3.5 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Multi-Color Coating: 680 g/l or 5.7 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Pretreatment Coating: 660 g/l or 5.5 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Primer Coating: 250 g/l or 2.1 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Primer Sealer Coating: 250 g/l or 2.1 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Single-Stage Coating: 340 g/l or 2.8 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Temporary Protective Coating: 60 g/l or 0.5 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Truck Bed Liner Coating: 310 g/l or 2.6 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Underbody Coating: 430 g/l or 3.6 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Uniform Finish Coating: 540 g/l or 4.5 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-301.3	Y	Any Other Type of Coating: 250 g/l or 2.1 lb/gal	Regulation 8-45-501	P/W	Recordkeeping	Yes
	Regulation 8-45-308.4	Y	Surface Preparation Solvent: general: 72 g/l (0.6 lb/gal) hand held spray: 780 g/l (6.5 lb/gal)	Regulation 8-45-501	P/W	Recordkeeping	Yes
Usage	Regulation 8-45-312	Y	Adhesion promoter, uniform finish & multi-color coating not to exceed 5% of all topcoats applied by volume	Regulation 8-45-501	P/W	Recordkeeping	Yes



Table VII – H
Applicable Limits and Compliance Monitoring Requirements
S155, S156, S157: FACILITIES PAINT BOOTHS

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Usage	Regulation 8-45-314	Y	Precoat usage: 25% of waterborne primer sealer	Regulation 8-45-501	P/M	Recordkeeping	Yes
VOC	SIP Regulation 8-45-301.1	Y	Group I Vehicles, Precoat: 600 g/l (5.0 lb/gal)	Regulation 8-45-501	P/W	Recordkeeping	Yes
VOC	SIP Regulation 8-45-301.2	Y	Group II Vehicles, Precoat: 600 g/l (5.0 lb/gal)	Regulation 8-45-501	P/W	Recordkeeping	Yes
VOC	Regulation 8-49-301	Y	%VOC (various)	Regulation 8-49-401	P/E	Manufacturer Labeling	Yes

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S195: COMBUSTION TURBINE
S196: DUCT BURNER

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance? ²
NO _x	Regulation 9-9-301.1.3	Y	9 ppmv @ 15% O ₂ (dry) 3-hr average	Regulation 9-9-501	C	Continuous Emission Monitor System (CEM)	NA
	40 CFR 60.332(a)(2)	Y	90 ppmv @ 15% O ₂ (dry)	40 CFR 60.334(b)	C	CEM	NA
	Condition #23670, Part 4	Y	9 ppmv @ 15% O ₂ (dry)	Condition #23670, Part 11	C	CEM	NA
	Condition #23670, Part 7	Y	16 ppmv @ 15% O ₂ (dry)	Condition #23670, Part 11	C	CEM	NA

² Units S-195 and S-196 are currently listed as permitted emission units under the SFMC's Title V Operating Permit #A0015. As the BAAQMD is aware, the facility stopped operating the combustion turbine, including the CEM, and the duct burner in January 2012. The equipment has not been operated since that time. In May 2013, United requested cancellation of the permit to operate for S-195 and S-196. The CEM is the prescribed monitoring requirement for NO_x and CO emissions for these units. However, because these units were not in operation during this reporting period, there were no NO_x or CO emissions for the CEM to measure during this reporting period.



Table VII – I
Applicable Limits and Compliance Monitoring Requirements

S195: COMBUSTION TURBINE

S196: DUCT BURNER

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance? ²
NO _x	Condition #23670 Part 8	Y	S-195, S-196 Combined Daily Emissions Limit: 365 lb/day (natural gas), 391 lb/day (jet fuel)	Condition #23670, Part 11	C	Continuous Emission Monitor System (CEM)	NA
Sulfur Content	Regulation 9-1-304	Y	Fuel Sulfur Content 0.5% (liquid fuels)	Condition #23670 Parts 6 and 9	P/E	Liquid fuel usage records, vendor fuel certification or laboratory analysis	NA
	40 CFR 60.333(b)	Y	0.8% (wt) fuel sulfur content	40 CFR 60.334(b)	P/E	Sulfur content of fuel	NA
	BAAQMD Condition #23670 Part 9	Y	Fuel Requirement: natural gas or jet A fuel with fuel sulfur content ≤0.12% (wt)	Condition #23670 Part 9,	P/E	Liquid fuel usage records, vendor fuel certification or laboratory analysis	NA
CO	Condition #23670 Part 10	Y	500 lb/day or ≥80% reduction efficiency	Condition #23670 Part 11,	C	CEM	NA
Usage	Condition #23670 Part 6	Y	Jet Fuel Usage: ≤2,495 hrs/yr	Condition #23670 Part 13,	P/E	Record of Hours of Operation on Jet Fuel	NA

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
S198: WIPE CLEANING

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
VOC	40 CFR 63.744(b)(2)	Y	Composite Vapor Pressure: ≤45 mmHg @ 68 degrees F	40 CFR 63.752(b)(3)	P/M	Recordkeeping	NA

All cleaning solvents used at the facility are compliant with 40 CFR Section 63.744(b)(2) requirements.



Table VII – K
Applicable Limits and Compliance Monitoring Requirements

S244: DISSOLVED AIR FLOTATION UNIT

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Rate	Condition #5696, Part 2	Y	Wastewater Treatment Rate: ≤700 gal/min	None	D	Recordkeeping	Yes
VOC	Condition #5696, Part 3	Y	Annual Wastewater Throughput: ≤200,000,000 gal.	Condition #5696, Part 4	P/D	Recordkeeping	Yes
	Regulation 8-8-307	Y	Inspection of gaps	Regulation 8-8-503	P/Semi-Annual	Inspection for Gaps/ Recordkeeping	Yes

Table VII – L
Applicable Limits and Compliance Monitoring Requirements

S285: NON-RETAIL GASOLINE DISPENSING FACILITY (GDF #916)

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Gasoline Through-put	Condition #18349	N	500,000 gallons per 12-month period	Regulation 8-7-503.1	P/A	Recordkeeping	Yes
Gasoline Through-put (Exempt from Phase I)	Regulation 8-7-114	Y	1000 gallons per facility for tank integrity leak checking	Regulation 8-7-501 and 8-7-503.1	P/E	Recordkeeping	Yes
Organic Compounds	Regulation 8-7-301.2	Y	All Phase I Equipment shall Meet the Emission Limitations of the Applicable CARB Certification	None	N	Use CARB Certified System	Yes
Organic Compounds	Regulation 8-7-301.6	Y	All Phase I Equipment shall be leak free (<3 drops/minute) & vapor tight	Condition #16516	P/A	Annual check for vapor tight-ness and proper operation of vapor recovery system (VRS)	Yes
Organic Compounds	Regulation 8-7-302.5	Y	All Phase II Equipment shall be leak free (<3 drops/minute) & vapor tight	Condition #16516	P/A	Annual check for vapor tight-ness and proper operation of VRS	Yes
Organic Com-	Condition #18135,	Y	Any emergency vent or manway shall be	Condition #16516	P/A	Annual check for vapor tight-ness	Yes



Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
pounds	Part 3 ⁴		leak free			and proper operation of VRS	
Defective Component Repair Time Limit	Regulation 8-7-302.4	Y	Must be repaired or replaced within 7 days	Regulation 8-7-503.2	N	Recordkeeping	Yes
Liquid Removal Rate	Regulation 8-7-302.8	Y	≥ 5 ml per gallon dispensed, when dispensing rate > 5 gallons/min.	None	N	Use CARB Certified System	Yes
Liquid Retain from Nozzles	Regulation and SIP 8-7-302.12	Y	≤100 ml per 1000 gallons dispensed	None	N	Use CARB Certified System	Yes
Nozzle Spitting	BAAQMD Regulation and SIP 8-7-302.13	Y	≤1.0 ml per nozzle per test	None	N	Use CARB Certified System	Yes
Pressure-Vacuum Valve	Regulation 8-7-316	Y	Pressure Setting: Less than 2.5 in w.c.	Regulation 8-7-316	N	P/V valve setting	Yes

⁴ The Title V Operating Permit Table VII-L references Condition #18135, Part 3 (Type of Limit - Organic Compounds). However, Condition #18135 is no longer in United's current Permit. Condition #18135 appeared in the previous version of the facility's Title V Operating Permit (which was issued in 2003) and enumerated the requirement for Static Pressure Testing, along with other requirements. Such requirements are now listed in Condition #25107 of the facility's annual renewal permits to operate.

Table VII – M
Applicable Limits and Compliance Monitoring Requirements

S295, S296, S297, S300, S301, S315, S326, S333:
EMERGENCY STANDBY ENGINES (DIESEL)

S302: EMERGENCY STANDBY ENGINE (PROPANE)

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation ³	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Fuel Sulfur Content	Regulation 9-1-304	Y	≤ 0.5% by weight	None	P/E	Vendor fuel certification or BAAQMD-approved laboratory analysis	Yes
Hours of Operation	Regulation 9-8-330.2	N	≤100 hours each per calendar year	Regulation 9-8-530	C	Totalizing meter for hours of operation	Yes

³ The citations in Table VII – M to Section 93115.10(e)(1) and Section 93115.10(g) of the Stationary Compression Ignition Engine ATCM are based on the 2007 version of the regulation. The citations for the same monitoring requirements in the 2011 version of the ATCM are Section 93115.10(d)(1) and 93115.10(f), respectively. The facility is in compliance with the applicable monitoring requirements.



Major Facility Review Permit
Semiannual Monitoring Status Report
March 1, 2016 to August 31, 2016

Facility ID: A0051

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation ³	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
			for reliability testing				
				Regulation 9-8-502.1	P/M	Records	Yes
Hours of Operation	Regulation 9-8-330.3	N	≤50 hours each per calendar year for reliability testing	Regulation 9-8-530	C	Totalizing meter for hours of operation	Yes
				Regulation 9-8-502.1	P/M	Records	Yes
Hours of Operation for S295, S296, S297, S300, S301, S315	Condition #22820, Part 1	Y	≤ 20 hours/year for reliability-related activities	Condition #22820, Part 3	C	Totalizing meter for hours of operation and records	Yes
				Part 4	PM		
Hours of Operation for S295, S296, S297, S300, S310, S315	93115.6(b)(3)(A)(1)(a)	N	≤ 20 hours/year for reliability-related activities	93115.10(e)(1)	C	Totalizing meter for hours of operation	Yes
				93115.10(g)	P/M	Records	Yes
Hours of Operation for S326, S333	Condition 22850, Part 1	Y	≤ 50 hours/year for reliability-related activities	Condition 22850, Part 3	C	Totalizing meter for hours of operation and records	Yes
				Condition 22850, Part 4	P/M	Records	Yes
Hours of Operation for S326, S333	93115.6(a)(3)(A)(1)(a)	N	≤ 50 hours/year for reliability-related activities	93115.10(e)(1)	C	Totalizing meter for hours of operation	Yes
				93115.10(g)	P/M	Records	Yes



Table VII – N
Applicable Limits and Compliance Monitoring Requirements
S304, S305, S306, S307, S308, S309, S310, S311, S312, S313, S314:
EMERGENCY STANDBY ENGINES, FIRE PUMP ENGINES

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation ⁴	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Fuel Sulfur Content	Regulation 9-1-304	Y	≤ 0.5% by weight	None	P/E	Vendor fuel certification or BAAQMD-approved laboratory analysis	Yes
Hours of Operation	Regulation 9-8-330.2	N	≤100 hours each per calendar year for reliability testing	Regulation 9-8-530	C	Totalizing meter for hours of operation	Yes
				Regulation 9-8-502.1	P/M	Records	Yes
Hours of Operation	Regulation 9-8-330.3	N	≤50 hours each per calendar year for reliability testing	Regulation 9-8-530	C	Totalizing meter for hours of operation	Yes
				Regulation 9-8-502.1	P/M	Records	Yes
Hours of Operation	93115.6(a)(4)(A)(1)(b)	N	≤ 34 hours/year for reliability-related activities	93115.10(e)(1)	C	Totalizing meter for hours of operation	Yes
				93115.10(g)	P/M	Records	Yes
Hours of Operation	Condition 22851, Part 1	Y	≤ 34 hours/year for reliability-related activities	Condition 22851, Part 3	C	Totalizing meter for hours of operation and records	Yes
				Condition 22851, Part 4	P/M	Records	Yes

⁴ The citations in Table VII – N to Section 93115.10(e)(1) and Section 93115.10(g) of the Stationary Compression Ignition Engine ATCM are based on the 2007 version of the regulation. The citations for the same monitoring requirements in the 2011 version of the ATCM are Section 93115.10(d)(1) and 93115.10(f) respectively. The facility is in compliance with the applicable monitoring requirements.



Table VII – O
Applicable Limits and Compliance Monitoring Requirements

S316 through S323: THERMAL SPRAY BOOTHS

Type of limit	Emission Limit Citation	FE Y/N	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type or Compl. Method	Continuous Compliance?
Pressure Differential	93101.5 (e)(2)	N	Pressure drop must be maintained per manufacturer's specifications	93101.5(f)(1)	P/W	Recordkeeping	Yes
Usage	Condition #23504, Part 1	N	54,400 pounds of material containing nickel or chromium per year	Condition #23504, Part 8	P/M	Recordkeeping	Yes
Enclosure Standards	Condition #23504, Part 4	N	Average inward face velocity at least 200 fpm.	Section 93101.5 (e)(4) Condition #23504, Part 8	P/A	Velocity Measurement	Yes
Enclosure Standards	Condition #23504, Part 4	N	Booth room air exchange door open \geq 38 seconds after spray ceases.	Section 93101.5 (c)(1) (B)(4) Condition #23504, part 8	P	Timer	Yes
Dry Filtration (Baghouse) Pressure Drop	Condition #23504, Part 6	N	Range: 0.3" to 4.5" in H ₂ O differential pressure across dry filter systems	Condition #23504, part 7,8	P/W	Differential Pressure/ Recordkeeping	Yes
HEPA Pressure Drop	Condition #23504, Part 6	N	Range: 1" to 4" in H ₂ O differential pressure across HEPA systems	Condition #23504, part 7,8	P/W	Differential Pressure/ Recordkeeping	Yes

**THIS MARKS THE CONCLUSION OF
THIS SEMIANNUAL MONITORING REPORT.**